IN THE CLAIMS

(currently amended) An apparatus for use during 1. arthroplasty for guiding the resection of a bone having a long axis, comprising:

an anchoring pin for anchoring the apparatus to the bone, said anchoring pin oriented transversely to the long axis of the bone;

a first cam lock having a rod member at a first end and a split bore at a second end for slidably and rotationally receiving the pin, a diameter of the split bore being reduced by actuation of a first cam lever forming part of the first cam lock;

a first split tubular member having a bore with a first longitudinal axis, a second cam lock located at a first end of the first split tubular member, the rod member slidably and rotationally received within the bore at a first end of the first split tubular member, a diameter of the first split tubular member bore reduced by the actuation of a second cam lever forming part of the second cam lock;

a resection guide for guiding a resection on a bone, the resection guide having a rod extending from the guide, the rod slidably and rotationally received within a bore at a second end of the split tubular member and the resection quide moveable with respect to the bore in a direction transverse to a central bore axis:

a computer navigation means coupled to the resection guide; and

a third cam lock located at the second end of the first split tubular member, a diameter of the first split tubular member bore at athe second end thereof reduced by the actuation of a third cam lever forming part of the third cam lock, a positioning guide having a rod thereon mounted in the second end of the first split tubular member and locked in the bore by the

third cam lock, the positioning guide having a track thereon extending in a plane perpendicular to the longitudinal axis of the first split tubular member bore, the track having a fourth cam lock, the track slidably receiving an element having a fifth cam lock having a second split tubular member having a bore capable of being reduced by actuation of a fifth cam lever, the element having the fifth cam lock is slidable on the track along a plane perpendicular to the longitudinal axis of the first split tubular member and capable of being locked in the track by the fourth cam lock, a guide having a rod slidably mounted in the second split tubular member bore and capable of being locked in the bore of the fifth cam lock by the fifth cam lever, the guide slidable in a plane parallel to the plane of the track and perpendicular to the first longitudinal axis of the split tubular member, the second direction perpendicular to the first direction, said apparatus providing six degrees of freedom, wherein said six degrees of freedom include three rotations and three orthogonal translations.

Claims 2-5 (cancelled)

- (previously presented) The apparatus claim 1 wherein said six degrees of freedom include flexionextension, varus-valgus, and proximal-distal.
- apparatus according 7. (previously presented) The freedom include claim 6 said six degrees of wherein flexion-extension, varus—valqus, internal-external rotation, proximal-distal, medial-lateral, and anterior-posterior.
- apparatus according to 8. (previously presented) The wherein said quide includes means for attaching a computer navigation tracker.

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- (previously presented) The apparatus according 9. claim 1 wherein said guide includes a pair of arms having guide holes adapted to quide drilling into the epicondylar region of a femur.
- (previously presented) The apparatus according claim 9 wherein said guide includes a T-shaped component and said arms are adapted to be coupled to said T-shaped component.

Claims 11-13 (cancelled)

(previously presented) The apparatus according claim 1 wherein said guide is adapted to guide the drilling of two holes in the distal femur.

Claims 15-42 (cancelled)

43. (currently amended) A set of tools for guiding the resection of a bone during arthroplasty, said set of tools comprising:

a guide bushing defining two spaced apart guide holes, said guide bushing having an orthogonal stem for coupling to an alignment device and a coupling for coupling a tracker to the bushing, the guide bushing moveable in a direction with respect to the stem transverse to a longitudinal axis of the stem;

an alignment device having six degrees of freedom wherein three are rotational and three are orthogonal translations, said alignment device being adapted to couple to said stem and couple to an anchoring device;

the alignment device comprising:

a first cam lock having a rod member at a first end and a split bore at a second end for slidably and rotationally

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receiving the anchoring device coupled to a bone, a diameter of the split bore being reduced by actuation of a first cam lever forming part of the first cam lock;

a first split tubular member having a bore with a first longitudinal axis, a second cam lock located at a first end of the first split tubular member, the rod member slidably and rotationally received within the bore at a first end of the first split tubular member, a diameter of the first split tubular member bore reduced by the actuation of a second cam lever forming part of the second cam lock;

the guide bushing orthogonal stem slidably and rotationally received within a bore at a second end of the first split tubular member; and

a third cam lock located at the second end of the first split tubular member, a diameter of the first split tubular member bore at the second end reduced by the actuation of a third cam lever forming part of the third cam lock, the guide bushing having a rod thereon mounted in the second end of the first split tubular member and locked in the bore by the third cam lock, the positioning guide having a track thereon extending in a plane perpendicular to the longitudinal axis of the first split tubular member bore, the track having a fourth cam lock, the track slidably receiving an element having a fifth cam lock having a second split tubular member having a bore capable of being reduced by actuation of a fifth cam lever, the element having the fifth cam lock is slidable on the track along a plane perpendicular to the longitudinal axis of the first split tubular member bore and capable of being locked in the track by the fourth cam lock, a quide having a rod slidably mounted in the second split tubular member bore and capable of being locked in the bore of the fifth cam lock by the fifth cam lever, the guide slidable in a plane parallel to the plane of the track and perpendicular to the first longitudinal axis of the split

tubular member, the second direction perpendicular to the first direction.

- (previously presented) The set of tools according to claim 43 wherein said guide is adapted to guide the drilling of holes in the distal femur.
- 45. (currently amended) The set of tools according to claim 43 wherein said alignment device has sixfive degrees of freedom.
- 46. (currently amended) The set of tools according to claim 43 wherein said guide bushing includes a medial guide holebushing and a lateral guide holebushing, said medial guide holebushing defining two spaced apart holes for drilling into the medial epicondylar region, and said lateral guide bushing defining two spaced apart holes for drilling into the lateral epicondylar region.
- (previously presented) The apparatus of claim 1 47. wherein said anchoring means is oriented substantially parallel to the sagital plane.

Claims 48-69 (cancelled)

- 70. (currently amended) A set of tools for guiding the resection of a bone during arthroplasty, said set of tools comprising:
- a resection guide having an orthogonal stem for coupling to an alignment device and a coupling for coupling a tracker to the guide;

an alignment device for aligning the resection guide having rotational degrees of freedom and three orthogonal translational degrees of freedom comprising:

a first cam lock having a rod member at a first end and a split bore at a second end for slidably and rotationally receiving a pin extending into a bone, a diameter of the split bore being reduced by actuation of a first cam lever forming part of the first cam lock;

a <u>first</u> split tubular member having a bore with a first longitudinal axis, a second cam lock located at a first end of the first split tubular member, the rod member slidably and rotationally received within the bore at a first end of the first split tubular member, a diameter of the first split tubular member bore reduced by the actuation of a second cam lever forming part of the second cam lock;

the guide bushing orthogonal stem slidably and rotationally received within a bore at a second end of the first split tubular member, the quide bushing movable in a direction with respect to the stem transverse to a longitudinal axis of the stem; and

a third cam lock located at the second end of the first split tubular member, a diameter of the split tubular member bore at the second end reduced by the actuation of a third cam lever forming part of the third cam lock, the guide bushing having a positioning guide having a rod thereon mounted in the second end of the first split tubular member and locked in the bore by the third cam lock, the positioning guide having a track thereon extending in a plane perpendicular to the longitudinal axis of the first split tubular member bore, the track having a fourth cam lock, the track slidably receiving an element having a fifth cam lock having a second split tubular member having a bore capable of being reduced by actuation of a fifth cam lever, the element having the fifth cam lock is slidable on the track

along a plane perpendicular to the first longitudinal axis of the first split tubular member and capable of being locked in the track by the fourth cam lock, a guide having a rod slidably mounted in the second split tubular member bore and capable of being locked in the bore of the fifth cam lock by the fifth cam lever, the guide slidable in a plane parallel to the plane of the track and perpendicular to the first longitudinal axis of the split tubular member, the second direction perpendicular to the first direction.

- (previously presented) The set of tools according to claim 70 wherein said quide is adapted to guide the drilling of holes in the distal femur.
- 72. (currently amended) The set of tools according to claim 70 wherein said guide is a guide bushing which includes a medial guide holebushing and a lateral guide holebushing, said medial guide bushing defining two spaced apart holes for drilling into the medial epicondylar region, and said lateral quide bushing-defining two spaced apart holes for drilling into the lateral epicondylar region.